proposed move to System F

At the Manticore meeting on 11/7/07, we discussed moving BOM in the direction of System F.

The following summarize the proposed changes to the <code>BOM</code> module:

New syntactic forms:

- `let x : tau = y [tauVec]`
- `apply f [tauVec] [... / ...]`
- `let x : tau = CONS [tauVec] (... )`
- `let x : tau = CONST [tauVec]`
- `throw k [tau] (...)`

New types:

- `alpha (* type variables *)`
- `forall alphaVec . tau`
- `T [tauVec]`
- `tau + tau`

Here are the changes to the datatypes in the <code>BOM</code> module:

```plaintext
datatype term
    = ...
    E_Apply of (var * ty list * var list * var list)
    E_Throw of (var * ty list * var list)
    E_HLOp of (hlop * ty list * var list * var list)
and rhs
    = ...
    E_TyApply of (var * ty list)
    E_DCon of (data_con * ty list * ty list)
and lambda
    = FB of
      Unknown macro: { f }
and pat
    = P_DCon of (data_con * ty list * var list)
    P_DConst of (data_con * ty list)
    ...
and the changes to the BOMTy module:

datatype ty
    = T_Var of ty_var
    T_Forall of (ty_var list * ty)
    T_TyCon of (tyc * ty list)
    ...
```

We'll also need to add the <code>ty_var</code> type and make changes to the representation of <code>tyc</code>s.